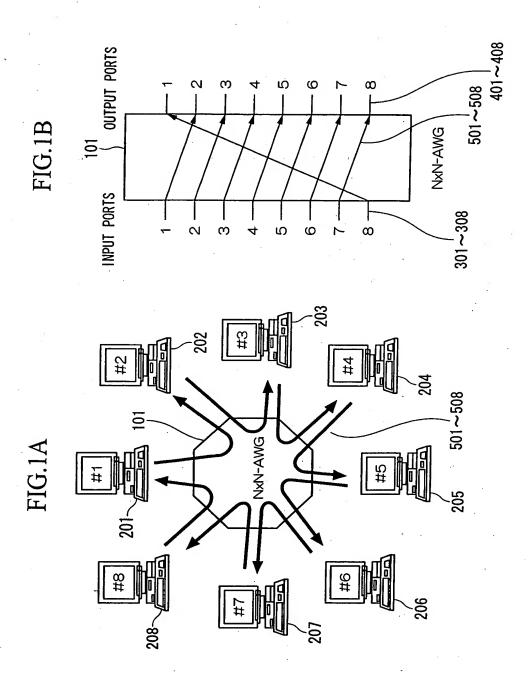
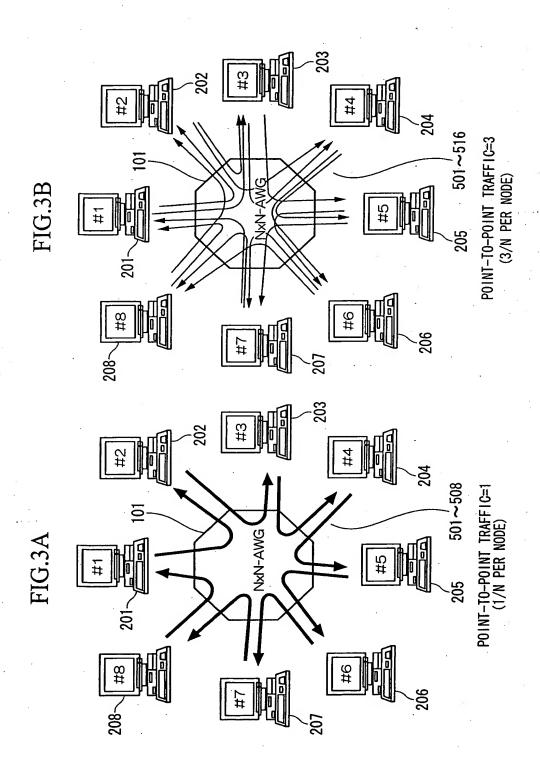
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		,								
		ω.	78	77	12	у3	14	75	76	77
		_	77	82	71	72	73	47/	75	γ9
		ဖ	76	77	78	71	775	73	74	75
3B	ORTS	S	75	уе	77	787	17	12	λ3	74
FIG.2B	OUTPUT PORTS	4	14	75	797	77	γ8	71	72	λ3
H	100 T	က	13	47/	75	97	77	γ8	7.1	12
		2	75	λ3	74	75	уе	7۲	38	71
	/	-	71	12	73	λ4	75	91	ŻΥ	100
æ			-	2	е	4	5	9	2	8
1301~1308					STA	og Ti	JANI			
1301		ω	78	13	110	111	112	λ13	714	115
		7	7۲	γ8	6γ	λ10	211	7,12	λ13	113 114
	. (9	9ү	۲۲	γ8	39	7,10	111	112	113
A	RTS	5	/۲۶	уγ	7۲	18	67	λ10	111	112
FIG.2A	OUTPUT PORTS	4	74	/2γ	79Y	7۲	λ8	19	λ10	711
FI	OUTP	က	13	7,44	15	уе	λ7	λ8	39	710
		2	775	λ3	14	λ5	уе	7۲	γ8	79
		1	11	λ2	λ3	λ4	75	9γ	77	78
			-	2	က	4	ည	ပ	7	ω .
	STAO9 TU9NI									

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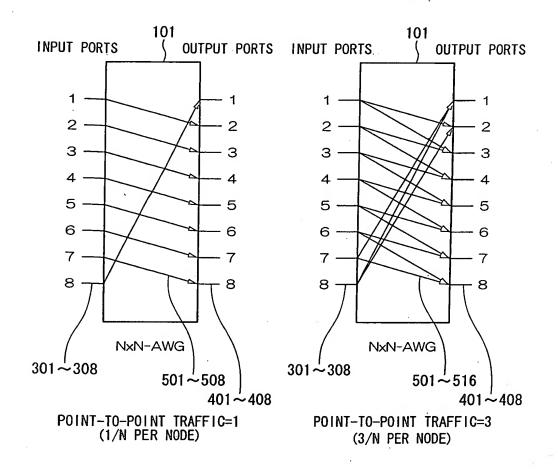


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FIG.4A

FIG.4B

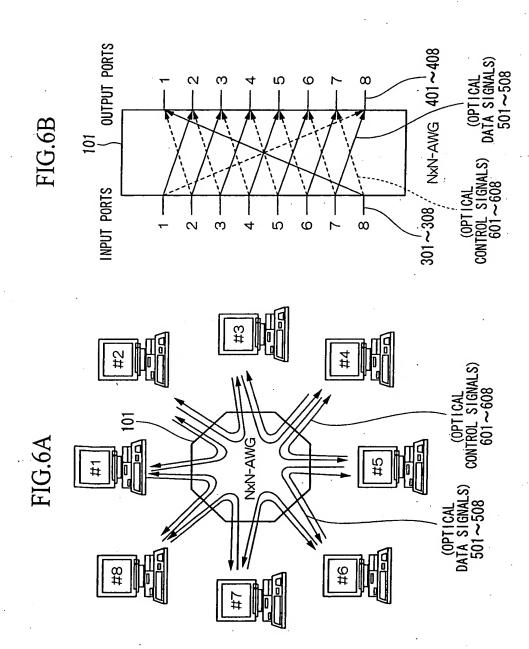


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		ω ω	78	17	75	73	74	72	7,6	77
		2	77	78	7	12	33	47	75	76
		9	у.	77	78	7/	777	73	74	75
B	ORTS	2	75	уе		78	٦٢	12	73	14
FIG.5B	OUTPUT PORTS	4	74	72	76/	77	78	71	72	73
豆	1100 1110	т	(6) (7)	7	72	91	77	82	7	72
		7		73	74	75	97	۲۲	78	5
	/	-	71	72	73	74	72	97	77	78
9		\angle	-	2	ო	4	5	9	^	ω
1301∼1316					S13	709 T	ruqni	•		
1301		œ	38	13	710	111	λ12	7,13	47.7	715
		7	7۲	γ8	79	110	711	112	113	λ14
		9	уę	77	γ8	67	210	111	112	λ13
A	TS/	5	3γ	у(78	67	110	111	112
FIG.5A	OUTPUT PORTS	4	74	15	76	7۲	78	13	λ10	111
E	OUTPI	က	733	7,4	15	уе	7۲	γ8	λ9	λ10
		2	777	λ3	λ4	λ5	97	7۲	38	767
		-	11	12	λ3	14	λ5	уе	77	
			-	2	ю	4	2	9	7	ω
	, ,				STA	09 Ti	UANI			

STA09 TU9NI

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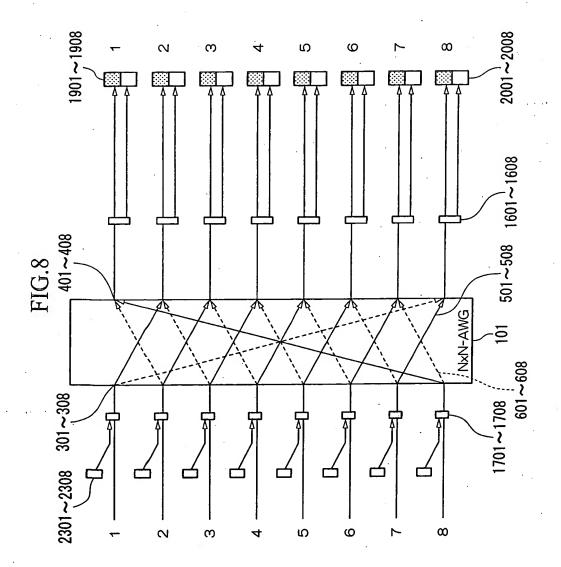


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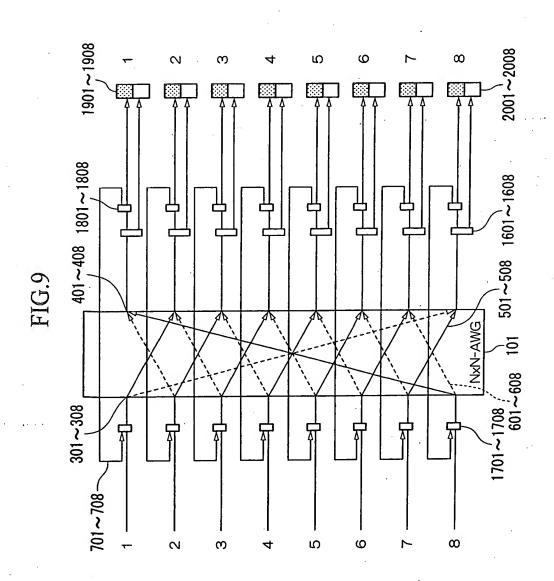
		ω	78	۸1	12	γ3	74	75	76/	77
	m	7	2۲	γв	11	12	73	47/	75	γ9
	1301~1308 rts/	9	9γ	7۲	38	71	775	γ3	74	75
\sim	1301	/5	ς۲ /	97	2۲	/8/ ////	71	12	73	74
FIG.7B	13C OUTPUT PORTS	4	14	32	//9Y//	77	78	11	12	73
FI(OUTPU	ε	εγ	774	37	91	2۲	8γ	71	72
		2	72	13	74	75	9۲	2۲	87	71
		1	111	72	εγ	74	<u>ςγ</u>	97	2۲	78
	80		1	2	3	4	2	9	2	8
	1401∼1408 \	7			215	709 T	TU9N I			
	140	8	78	67	λ10	111	112	λ13	43	115
		<u> </u>	7					~ ~	252	
		7	2۲	78	6γ	110	111	1,12	113	714
		9	91	2Υ.	γ8	6γ	710	111	112	λ13
A	RTS	2	15	γ9	λ7	78	19	λ10	711	112 113 114
FIG.7A	3 Output Ports	4	14	75	76/	۲۲	78	γЭ	λ10	111
FI	8 OUTPI	3	13	744	75	9۲	۲۲	γ8	6γ	710
	$1301 \sim 1308$	2	775	13	۸4	γ2	9γ	۲۲	γ8	67
	1301	-	11	λ2	λ3	۸4	35	9γ	۲۲	787
			1	2	3	4	2	9	7	ω

INPUT PORTS

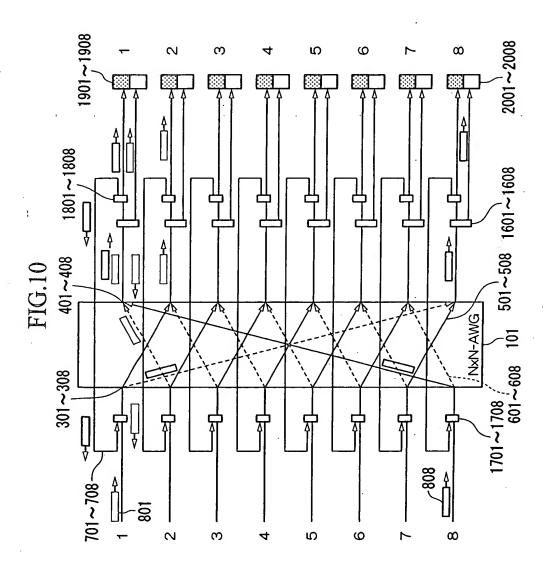
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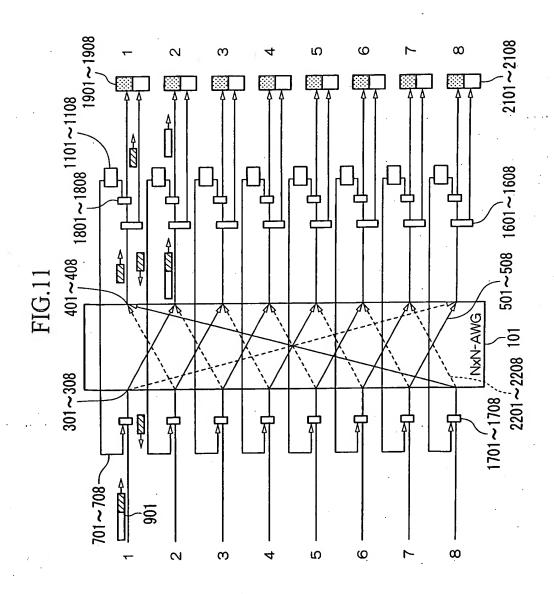
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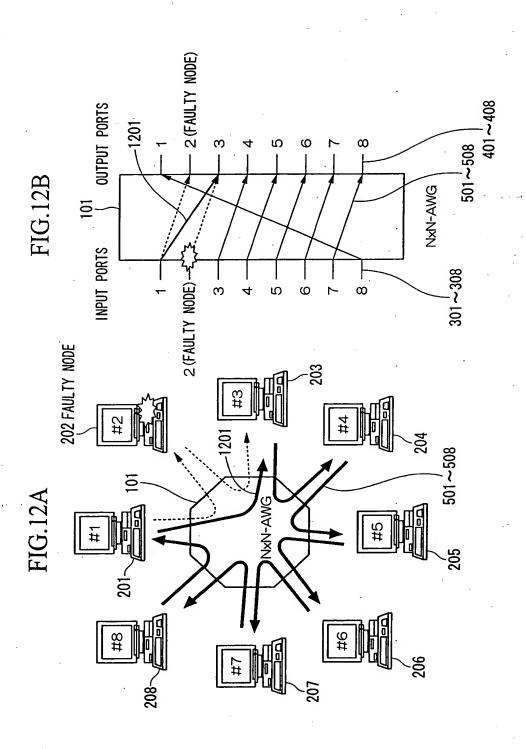
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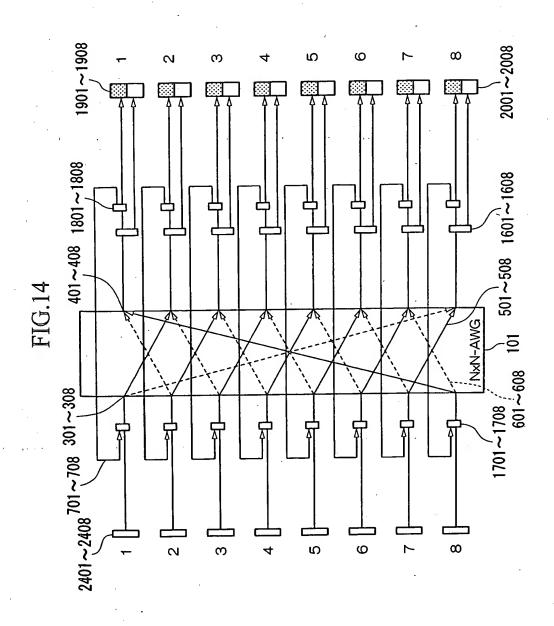


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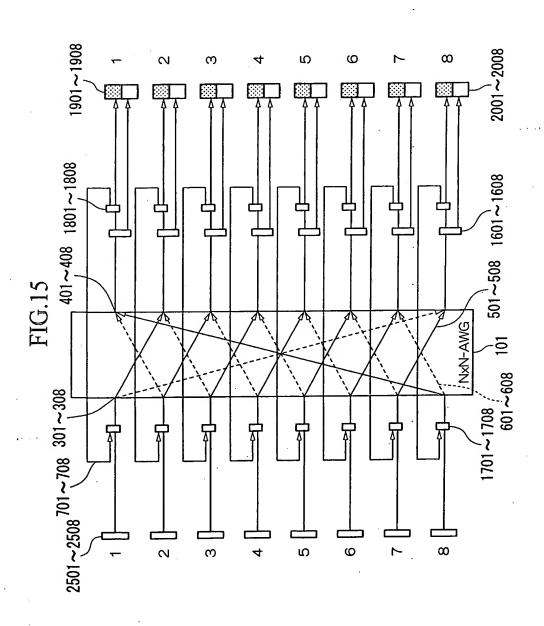
		80	78	71	72	73	74	15	76	77
		7	77	38	71	12	λ3	4/	45	λ6
	1508	9	97	77	у8	71		λЗ	74	15
BB	1501~1508 RTS /	/2	75	97	2۲	78/	7.1	12	γ3	74
FIG.13B	308 1501 OUTPUT PORTS	4	14/	15	97/	۲۲	87	71	12	γ3
FIC	308 ЛИТРИЛ	ო	73	7,44	75	уе	77	87	ŀΫ	12
	1301∼1308 \ outP	2	775	λЗ	74	37	91	2γ	87	71
	130	-	11	12	γз	λ4	9γ	9۲	۲۲	78
			1	2	3	4	5	9	4	ω
					2TA0	q TU	dNI		•	
					_					
		ω,	γ8	67	λ10	λ11	112	113	714	115
		7 8	אר אר	67 87	19 11C	λ10	111 112	3,12, 1,1	113 114	114 115
	-1508	8 2 9			8 ys	110	10, 711	111 (112) 11	112	113 114 115
Ϋ́	.501∼1508 TS	7	۲۲	१६ ४७ ४८	17 18 19	λ10	19 110 111 112	3,12, 1,1	111 112	112 113 114 115
3.13A	1501∼1508 T PORTS	6 7	71 St St 14	१५ १४ १४ १८	8 ys	110	3,10, 3,11	111 (112) 11	112	211 212 213 214 215
FIG.13A	TPUT POF	2 9 5/	א 9ז 3ז	१५ १४ १४ १८	17 18 19	178 39 110	19 (110) 111	110 111 112 11	111 112	210 211 212 213 214
FIG.13A	TPUT POF	4 /5 6 7	71 St St 14	१६ ४७ ४८	16 17 28 19	17 18 19 110	18 19 110 111	19 110 111 112 11	18 19 110 111 112	29 210 211 212 213 214
FIG.13A	1301∼1308 1501∼1508	3 4 /5 6 7	71 St St 14	14 15 16 17 18	15 16 17 18 19	16 17 18 19 110	17 18 19 310 111	18 19 110 111 112 11	19 110 111 112	18 19 210 211 212 213 214 215
FIG.13A	TPUT POF	3 4 /5 6 7	77 3 44 15 26 17	13 14 15 16 17 18	14 15 16 17 18 19	15 16 17 28 19 110	16 17 18 19 210 111	17 18 19 110 111 212 11	18 19 110 111 112	29 210 211 212 213 214

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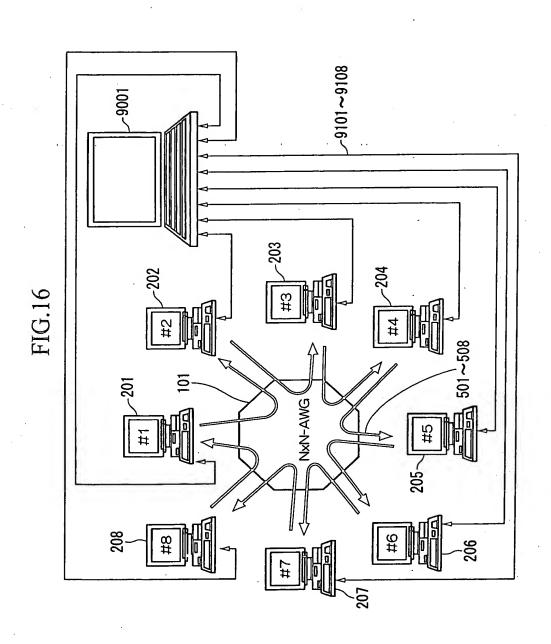
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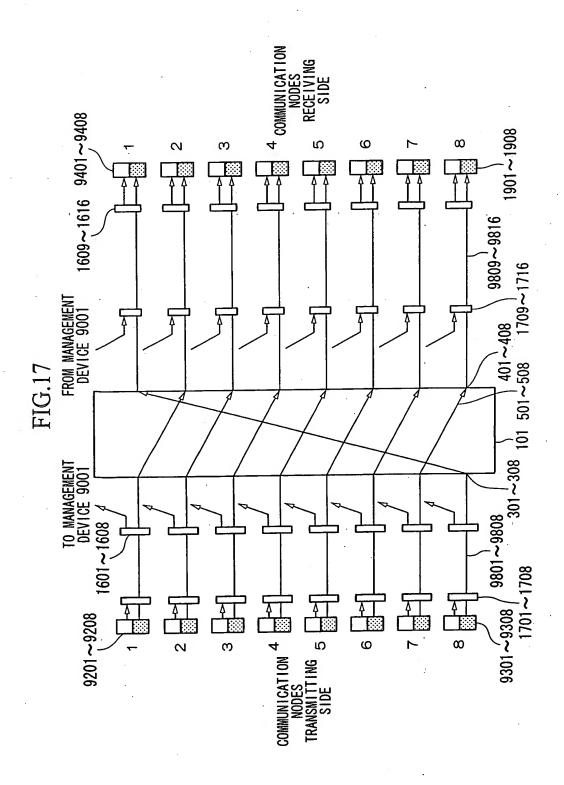
15/50



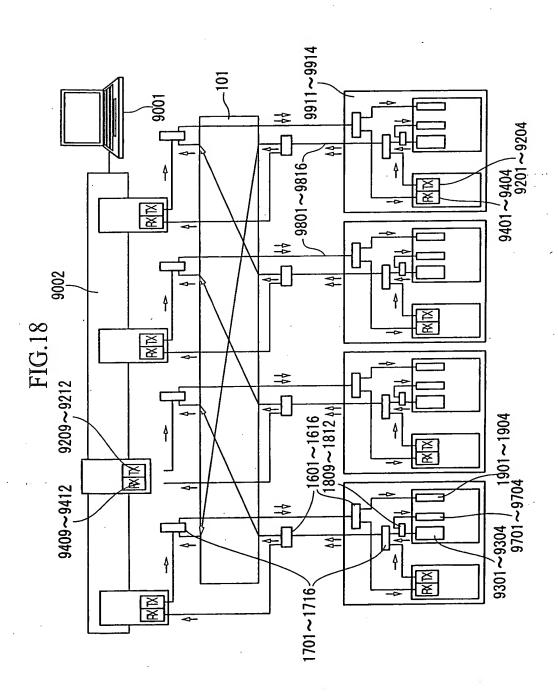
16/50



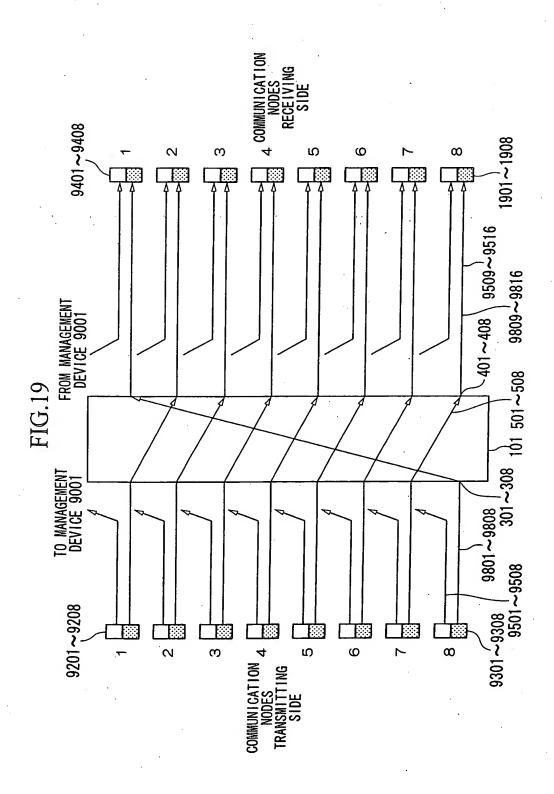
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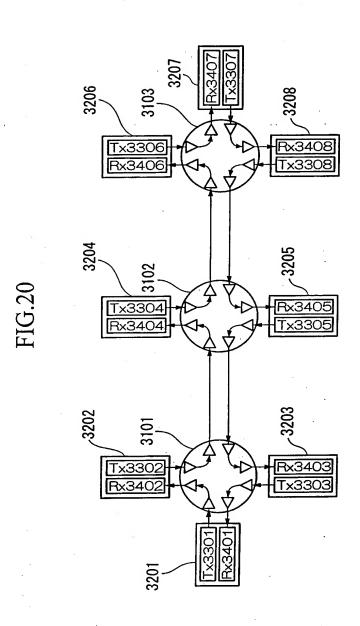
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FIG.21

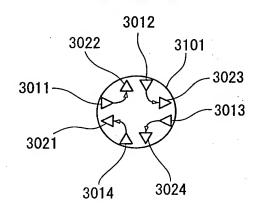


FIG.22

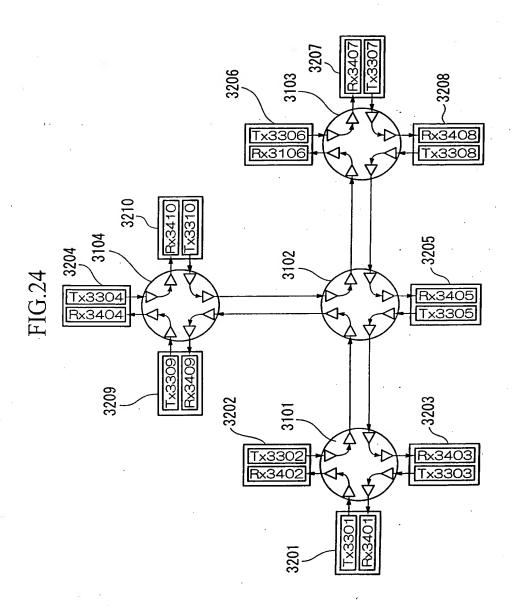
		3021	3022	3023	3024
PORTS	3011	λ1	/////////////////////////////////////	λЗ	λ4
INPUT	3012	λ2	λЗ	/////////////////////////////////////	λ5
OPT I CAL	3013	λЗ	λ4	λ5) 16 10
)	3014	λ4	λ5	λ6	λ7

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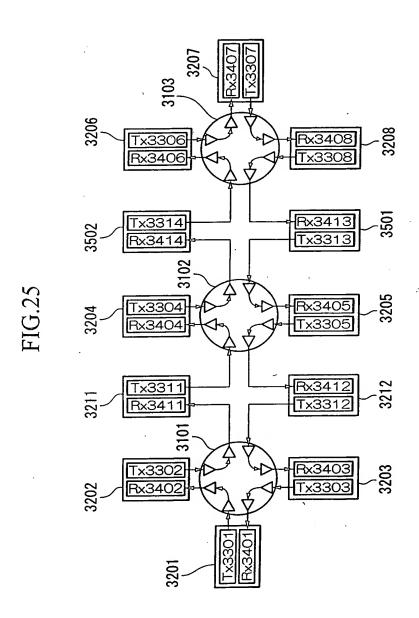
FIG.23

		3021	3022	3023	3024
PORTS	3011	λ1) λ2 ///////	λЗ	λ4
. INPUT	3012	λ2	λЗ	λ4	λ1
OPTICAL	3013	λЗ	λ4	λ1	/////////////////////////////////////
)	3014	//////////////////////////////////////	λ1	λ2	λЗ

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FIG.26

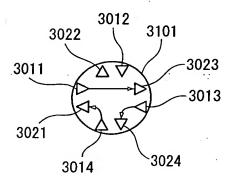


FIG.27

_					
"		3021	3022	3023	3024
I PORTS	3011	λ1	λ2	λ3//	λ4
- INPUT	3012	λ2	λЗ	λ4	λ5
OPT I CAL	3013	λЗ	λ4	λ5	λ6
	3014	λ4	λ5	λ6	λ7

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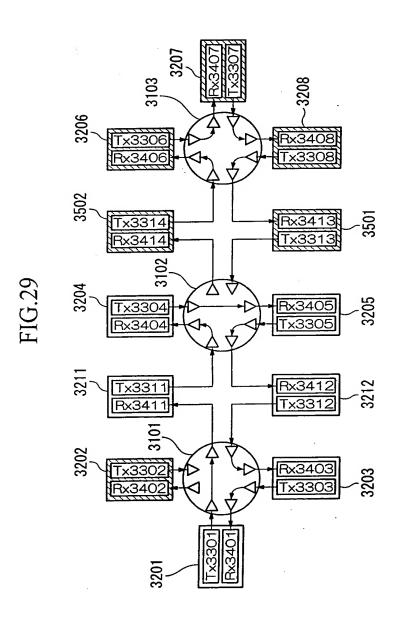
FIG.28

OPTICAL OUTPUT PORTS

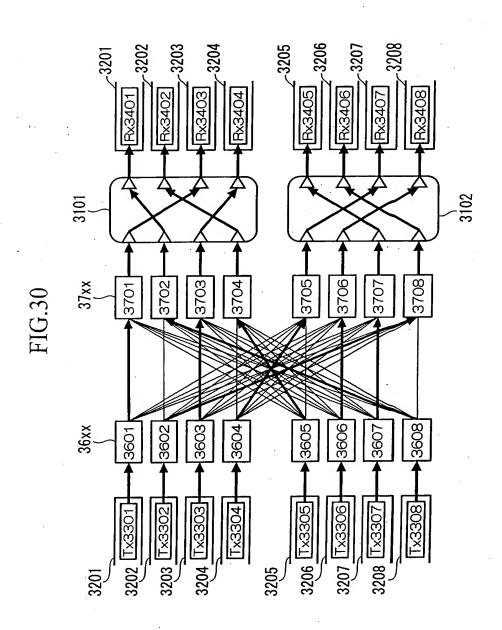
	3021	3022	3023	3024
3011	λ1	λ2	/////////////////////////////////////	λ4
3012	λ2	λЗ	λ4	λ1
3013	λЗ	λ4	λ1	//////////////////////////////////////
3014	λ4	λ1	λ2	λЗ
	<u> </u>			

OPTICAL INPUT PORTS

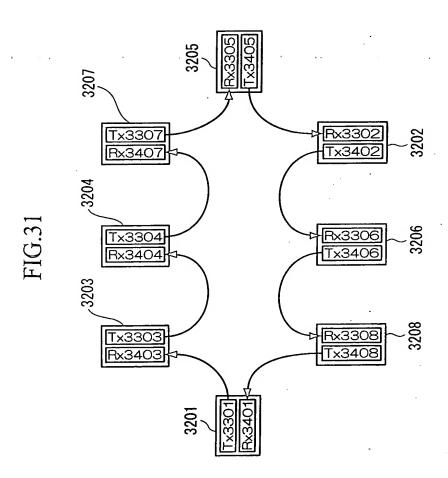
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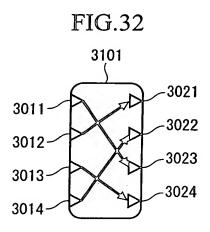


FIG.33
OPTICAL OUTPUT PORTS

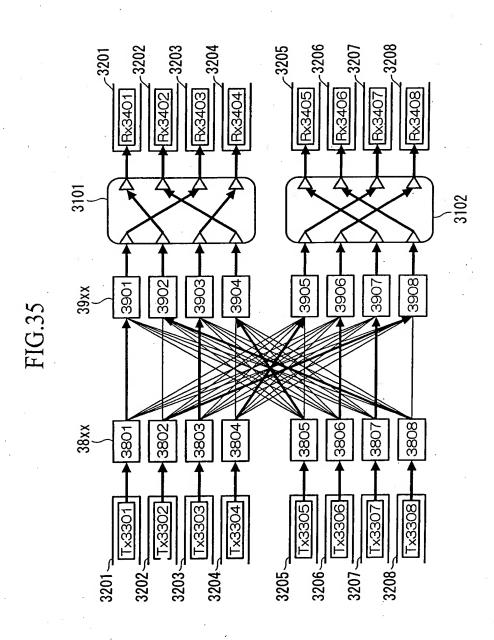
"		3021	3022	3023	3024
r Ports	3011	λ1	λ2	λ3//	λ4
- INPUT	3012	λ2	λЗ	λ4	λ5
OPT I CAL	3013	λЗ	λ4	λ5	λ6
	3014	λ4	λ5	λ6·	λ7

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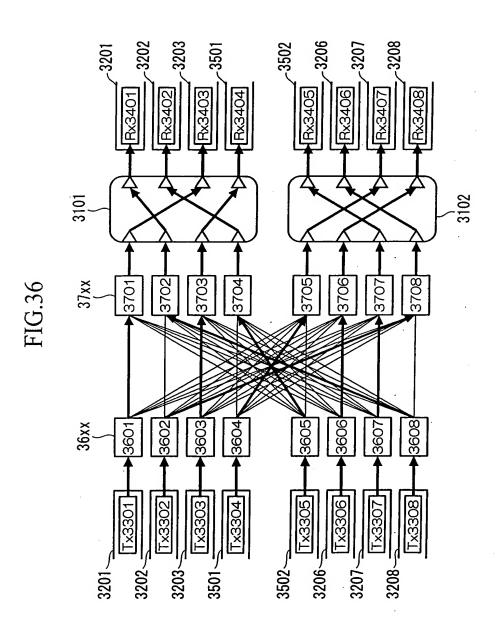
FIG.34

(0		3021	3022	3023	3024
T PORTS	3011	λ1	λ2	λ3//	λ4
LINPUT	3012	λ2	λЗ	λ4	λ1
OPT I CAL	3013	λЗ	λ4	λ1	/////////////////////////////////////
	3014	λ4	//////////////////////////////////////	λ2	λЗ

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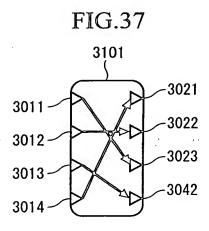


FIG.38
OPTICAL OUTPUT PORTS

		3021	3022	3023	3024
PORTS	3011	λ1	λ2	λ3//	λ4
INPUT	3012	λ2	λ3//	λ4	λ5
OPT I CAL	3013	λЗ	λ4	λ5	/////////////////////////////////////
0	3014	/////////////////////////////////////	λ5	λ6	λ7

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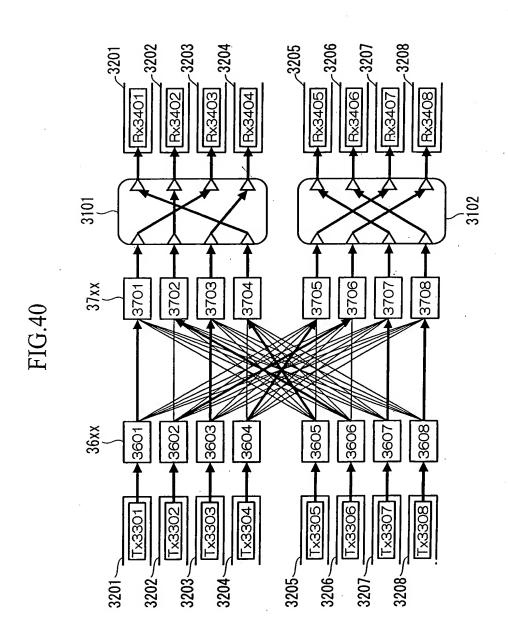
FIG.39

OPTICAL OUTPUT PORTS

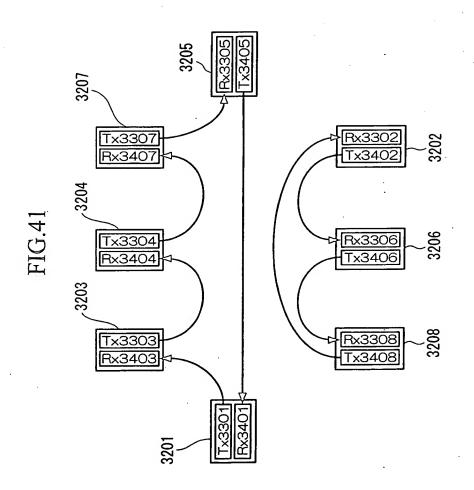
	3021	3022	3023	3024
3011	λ1	λ2	/////////////////////////////////////	۸4
3012	λ2	λ3//	λ4	λ1
3013	λЗ	λ4	λ1	/////////////////////////////////////
3014	λ4	λ1	λ2	λЗ

OPTICAL INPUT PORTS

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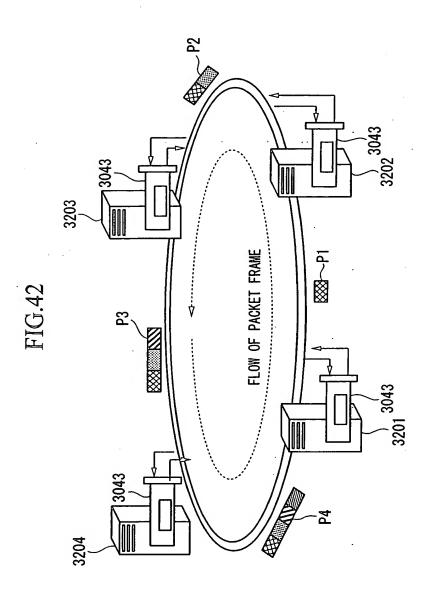


FIG.43A

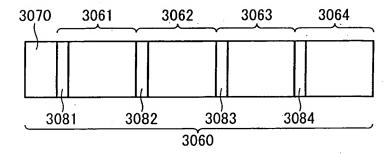
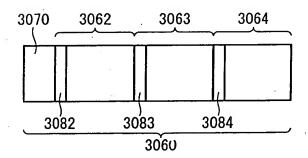
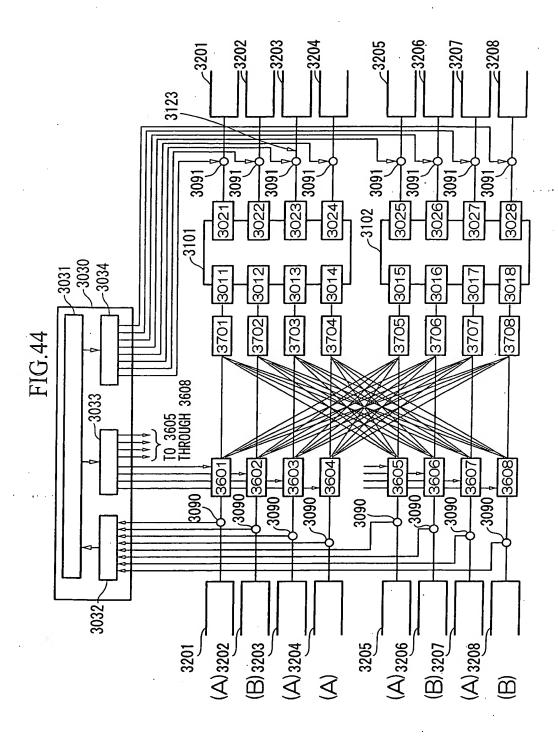


FIG.43B



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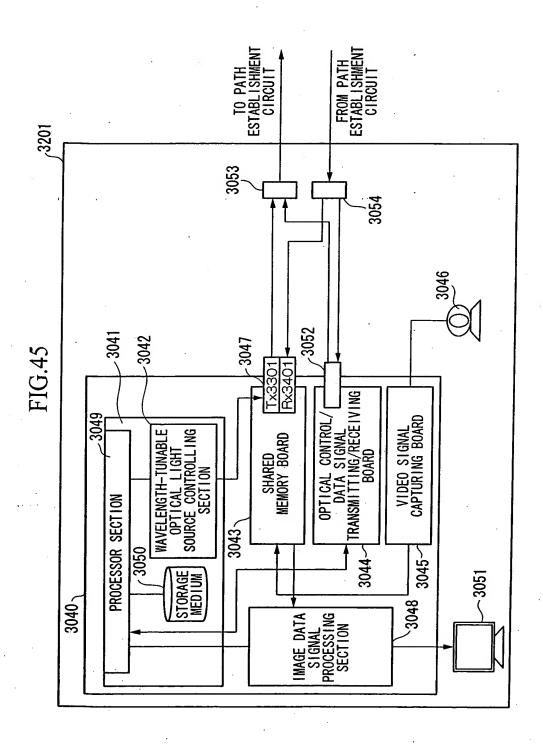


FIG.46

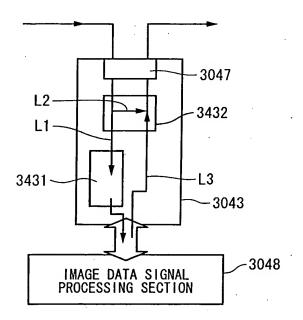
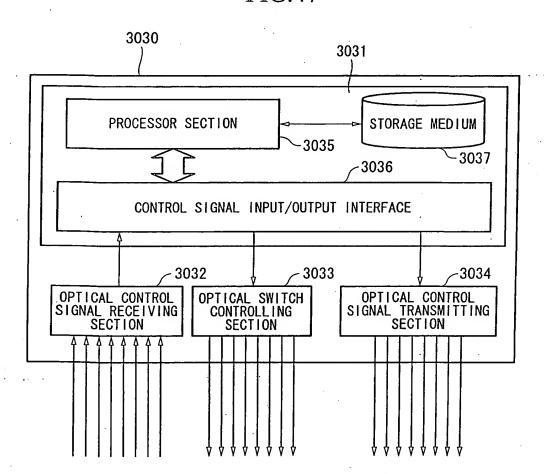


FIG.47



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FIG.48
OPTICAL OUTPUT PORTS

OPTICAL INPUT PORTS

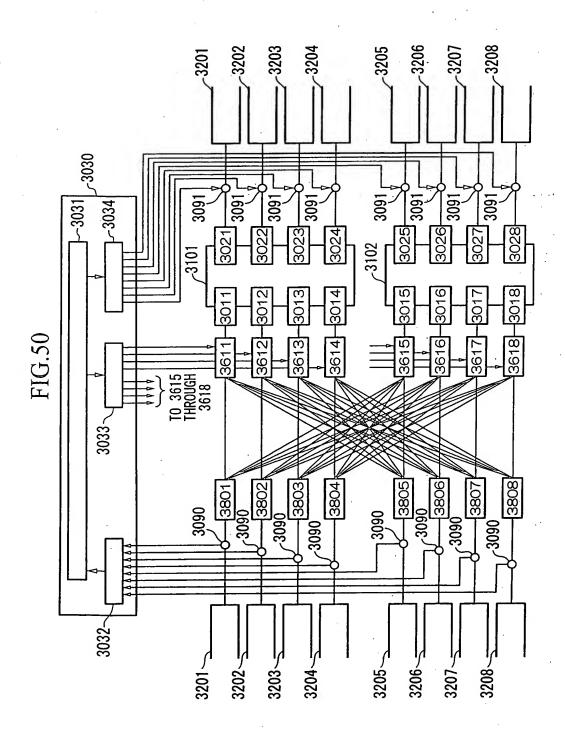
	3021	3022	3023	3024
3011	λ1	λ2	λ3	λ4
3012	λ2	λЗ	λ4	λ1
3013	้น3	λ4	λ1	λ2
3014	λ4	λ1	λ2	λЗ

FIG.49
OPTICAL OUTPUT PORTS

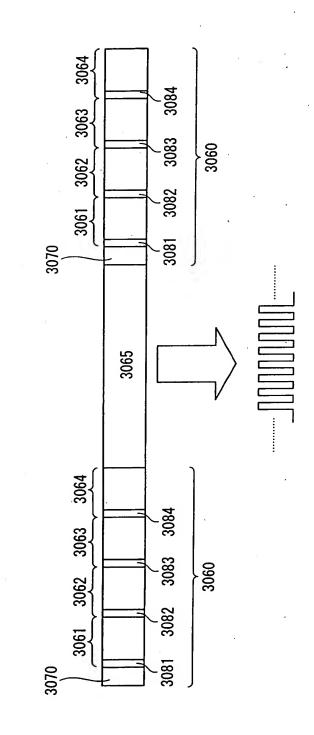
OPTICAL INPUT PORTS

	3025	3026	3027	3028
3015	λ1	λ2	λЗ	λ4
3016	λ2	λЗ	λ4	λ1
3017	λS	λ4	λ1	λ2
3018	λ4	λ1	λ2	λЗ

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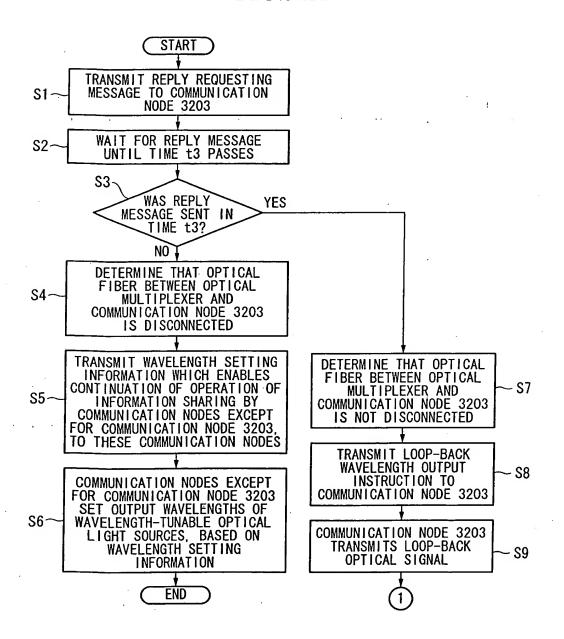


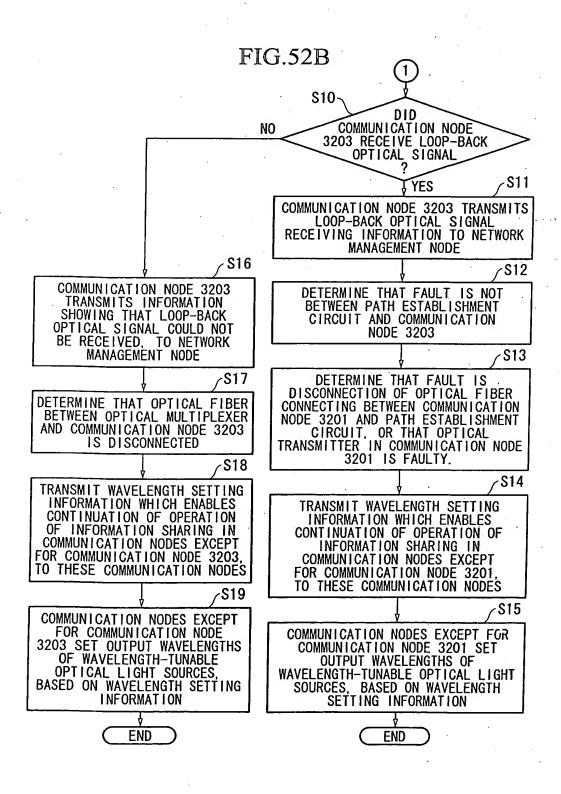
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FIG.52A





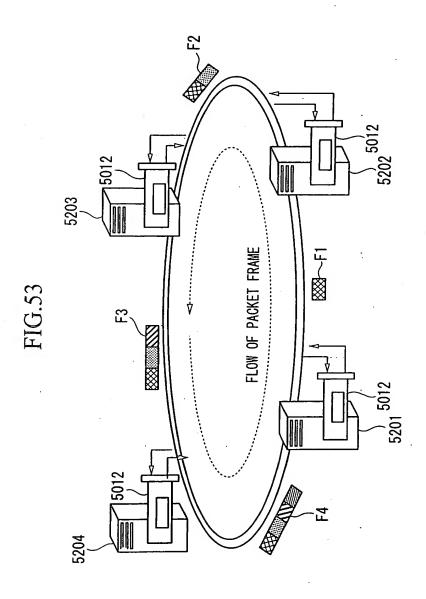


FIG. 54A

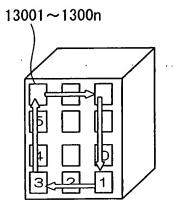


FIG. 54B

